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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/749,440	12/28/2000	. Suk-Won Choi	8733.373.00	6061
30827 75	90 05/04/2005		EXAMINER	
MCKENNA LONG & ALDRIDGE LLP			DUONG, THOI V	
1900 K STREE WASHINGTON			ART UNIT	PAPER NUMBER
			2871	
		DATE MAILED: 05/04/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

*					
	Application No.	Applicant(s)			
	09/749,440	CHOI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Thoi V. Duong	2871			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 15 Fe	ebruary 2005.				
<u> </u>					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ☐ Claim(s) 1-10,12-18 and 20-25 ie/are pending in 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-10,12-18 and 20-25 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examine	r.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex		· · · · · · · · · · · · · · · · · · ·			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
- Attachment(s)		•			
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da				
Paper No(s)/Mail Date 6) Other:					

This office action is in response to the Request for reconsideration filed February
 2005.

Claims 11 and 19 were cancelled and claims 1-10, 12-18 and 20-25 are currently pending in this application.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claims 1-10, 12-18 and 20-25 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

With respect to claims 1, 10 and 18, Applicant discloses a method of fabricating a liquid crystal display device comprising cooling the liquid crystal panel to a predetermined temperature so as to produce monostable alignment of the ferroelectric liquid crystal molecules and heating the cooled liquid crystal panel substantially to room temperature.

According to USPN 5,583,682, as shown in Fig. 1, Kitayama et al. also discloses a similar method of fabricating a liquid crystal display device comprising forming a ferroelectric liquid crystal (or chiral smectic liquid crystal) layer 15 between a first

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substrate 11a and a second substrate 11b; cooling the liquid crystal panel to a predetermined temperature of –9 degrees C and heating to room temperature, 30 degrees C (col. 9, lines 30-42 and col. 10, lines 41-44). However, the method of Kitayama et al. produces <u>bistable alignment</u> of the ferroelectric liquid crystal molecules (col. 2, lines 25-30) instead of <u>monostable alignment</u> as recited in claims 1, 10 and 18.

Since the reference of Kitayama et al. was patented, the reference of Kitayama et al. is presumed valid over the claimed invention.

Claims 2-9, 12-17 and 20-25 are also rejected since they are dependent on the unable claims.

Response to Arguments

4. Applicant's arguments filed February 15, 2005 have been fully considered but they are not persuasive.

Applicant argued that the rejection under 35 USC 112, first paragraphs is improper because of absent specific evidence that monostable alignment within a ferroelectric liquid crystal cannot be achieved by cooling a liquid crystal display panel to a predetermined temperature as disclosed in the specification. The Examiner disagrees with Applicant's remarks since Kitayama discloses that bistable alignment is produced within a ferroelectric liquid crystal by cooling to a predetermined temperature of –9 degrees C. Accordingly, Kitayama's disclosure is a specific evidence that monostable alignment cannot be achieved within a ferroelectric liquid crystal by cooling to a predetermined temperature of –9 degrees C.

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Applicant also argued that cooling at –9 degrees C producing bistable alignment does not mean that cooling at a temperatures below –9 degrees C cannot produce monostable alignment. The Examiner realizes that Kitayama just discloses a ferroelectric liquid crystal having bistable alignment produced by cooling to a predetermined temperature of –9 degrees C; however, the temperature below –9 degrees C, such as in the range around –20 degrees C disclosed in the specification, is not recited in claims 1, 10 and 18.

Conclusion

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thoi V. Duong whose telephone number is (571) 272-2292. The examiner can normally be reached on Monday-Friday from 8:30 am to 4:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim, can be reached at (571) 272-2293.

Thoi Duong

04/21/2005

ROBERT H. KIM SUPERVISORY PATENT EXAMINED TECHNOLOGY CENTER 2800